

Denver Gem & Mineral Guild
 Founded March 1964
 PO Box 261330
 Lakewood, CO 80226

AFMS Silver Medal Club 2016

May 2024



TIPS & CHIPS

[HTTP://WWW.DENVERGEM.ORG](http://www.denvergem.org) OR
1ST PLACE 2022 RMFMS!!!
[HTTP://DENVERGEM.ORG](http://denvergem.org) AND FACEBOOK!!!
 EMAIL = MINERALGUILD@GMAIL.COM
FIRST PLACE AFMS!!!!!!

President - Joe Walkowich
 720-272-8806

Vice President - Pete Modreski
 (#286)
 720-205-2553

Secretary - Heidi Utt

Treasurer - Debbie Baldwin (#243)
 303-377-4211

Hospitality - SERVE YOURSELF!

Editor - Beth Simmons (#276)
 303-902-1708

Grab Bags - Kathy Honda (#364)
 720-272-8806
 Susanne Peach
 720-890-2849

Field Trips - Committee

Show Chairman - Beth Simmons
 303-902-1708
 Asst.: Heidi Utt
 Dealer Chairman

Membership - Joe Walkowich
 joewcai@yahoo.com
 720-272-8806

Ways & Means - Dave Sanchez
 Gideon Breithaupt (#357)
 303-238-8344; 720-989-7202
 Dave Sanchez (#335)
 303-423-5206
 Sandra Lucero
 Nikki Lucero
 303-726-3829

Historian - Committee

Web Master - Bob Johnson (#274)
 303-985-8167

Claims Manager - Fred Ceconi
 (#357)
 303-404-5967

The new mailbox address is:
 Denver Gem & Mineral Guild
 PO Box 261330
 Lakewood, CO 80226



Tools you can use to identify gems and minerals

Dr. Peter J. Modreski (see bio in authors' supplement)



Pete's presentation will be about techniques you can use to help identify gems and minerals. After a short presentation and demonstrations, Pete will invite club members to bring up specimens (crystals or mineral specimens, and rough, cut or polished, and mounted stones) and we'll practice using some of the techniques to do our best to identify them, or at least to narrow down what they may or may not be. The instruments and methods we'll be demonstrating include those that Pete uses at the mineral identification table at our Guild mineral show.

We'll talk about the standard mineral identification techniques, by test or observation; color, luster, crystal form, hardness, cleavage, magnetism, streak, chemical tests (a drop of HCl) and the like. Then we'll discuss, and use, techniques with various kinds of instruments or equipment:

Specific gravity; this used to require a triple-beam balance to weigh a stone or crystal in air and suspended in water, but now can done with any inexpensive digital gem scale that weighs to an accuracy of 0.01 gram.

Refractive index; the most accurate measurements traditionally use an optical refractometer with a special prism and refractive index oil, but digital instruments now are available. We'll use a "Jemeter Digital 90" which was purchased about 30 years ago. Testing requires a flat, polished surface, normally on a faceted stone.

Thermal conductivity; originally just marketed in simplified form as a tester to distinguish diamond from all other stones, these instruments use a tiny metal probe which is held against a stone (either rough or polished) to give an analog reading of thermal conductivity ranging from low (glass) to very high (diamond). We'll demonstrate using a Prismatic Gem Tester II.

Fluorescence; using both long-wave and short-wave UV. Other optical properties, including **dichroism** or **pleochroism**, and **birefringence** (observed in polarized light).

Things to always keep in mind about attempting to identify a gem or mineral: many different minerals can have very similar physical properties; some particular stones may give confusing or erroneous testing results, due to impurities, inclusions, imperfections, surface coatings, and so on; and, it's always wise to never base an identification solely the results of one test method—it's much safer when you can you two different methods to confirm a result.

And, to repeat; all members attending are invited to bring in any mineral, crystals, or either rough or polished (faceted, or cabochon) gemstones to try out some of these test methods. You are welcome to bring in "unknown", or those for which you think you know the identity but are not certain or want to confirm it, or, stones you do know for sure what they are, but want to see if you can "stump the expert" (it definitely happens!).

<u>In This May 2024 ISSUE</u>	
May meeting	.....1
DGMG News	.....2
Calendar of events	.....3
Calendar sponsor	.....3
President's Message	.....3
May field trips	.....4
DGMG field trip to CSM Museum	.....5-6
Earth Day by Marj Becker	.....7
The Eclipse by Pete Modreski	.....8
Job Ad, Rocks for sale, Victor show	.....9
Winchcombe Meteorite by Gary Curtis	.....10
Ogallala Museum by Pete Modreski	.....11
Mineral Symposium poster	.....12
April board meeting & meeting	.....13
Weird rocks	.....14
Denver Show	.....15
CMS Auction flyer	.....16

60 years of DGMG Kudos, Celebrations, & Events

2024 DGMG Officers & Chairmen

President: Joe Walkowich
Vice President: Pete Modreski
Secretary: Heidi Utt **PRO-TEM:** vacant
Treasurer: Deb Baldwin
Treasurer Ass'ts: Joe Walkowich, Beth Simmons
Hospitality: **EVERYONE!**
Ways & Means:
 Dave Sanchez, Gideon Breithaupt, Sandra & Nikki Lucero
Membership: Joe Walkowich **Ass't:** vacant
Claims Manager: Fred Ceconi
Editor: Beth Simmons **Ass't:** Marj Becker
Historian/Librarian: Committee
Webmaster: Bob Johnson; **Ass't..** Joe Walkowich
Show Chairman: Beth Simmons ; **Ass't.** Heidi Utt
Field Trips: Committee, Eric Novack
Grab Bags: Kathy Honda, Susanne Peach
Merchandise: Sandra Lucero
Council Rep: Sandra Lucero;
Denver Show Rep: Joe Walkowich
Sunshine: Sandra Lucero
Party planning: Deb Baldwin, Marj Becker
RMFMS Rep: Kathy Honda
Outreach: Susanne Peach; Bob Johnson
Inventory manager: Committee

An "Assistant" is the officer's backup in case of illness or other reason they can't do their job. Every officer needs an "Assistant"! Join up! Say YES when asked!

May Sunshine Spotlight

CONTACT **SANDRA LUCERO** 303-726-3829
gardengal001@yahoo.com TO INFORM HER OF SUNSHINE REQUEST

Send cheerup wishes to **Maxine Sheel**—email Beth for her address! Congratulations to **Pete Modreski** for winning the "pegmatite quiz" at the Tucson Show. Just call him **Pegmatite Pete** from now on.

Get well wishes to **Gail Walkowich** recouping from hip replacement. Continuing feel better wishes to **Jim Dennis** who is battling cancer. Congrats to **Linda Burns** whose photo took 2nd place at the recent Santa Fe Trail arts show in Las Animas.

Welcome new members!

Barbara Aguirre

Jessica Wentworth

Kaylee Geidel
 Brayton Connard

David Emslie
 Carolyn A. Wood

Debbie Mitchell

Plus seven junior members

Dylan Patterson
 Dale Patterson

Eduardo Sanchez
 Jessica Sanchez
 Shelby Shackelford

Welcome



Top 10 Signs You Might Be a Geologist

10. You own more pieces of quartz than underwear
9. Your rock collection weighs more than you do
8. You can pronounce the word "molybdenite" correctly on the first try
7. You don't think of "cleavage" in the same way everyone else does
6. You have ever uttered the phrase "have you tried licking it" with no sexual connotations involved
5. You think the primary function of road cuts is tourist attractions
4. You find yourself compelled to examine individual rocks in driveway gravel
3. You have ever found yourself trying to explain to airport security that a rock hammer isn't really a weapon
2. You consider a "recent event" to be anything that has happened in the last hundred thousand years
1. You have ever had to respond "yes" to the question, "What have you got in here, rocks?"



ANNOUNCEMENT!
 Amazonite and Aquamarine will be the theme minerals at the DGMG 2025 show! There will be "best of species" contests!

THE DENVER GEM AND MINERAL GUILD—60 Years old!



Founded in 1964, the Denver Gem and Mineral Guild pursues exploration, experimentation, and education in the earth sciences; the discovery, development and preservation of minerals and mineral deposits; and the advancement, encouragement and utilization of the principles of art and craftsmanship as applied to gems and minerals.

The Guild meets on the second Friday of the month at 7:00 pm at the Wheat Ridge United Methodist Church, 38th & Wadsworth, Wheat Ridge, except for June, July, August, and December. Picnics, field trips, and parties replace regular meetings those months.

Deadline for article submission for the Tips & Chips is the 20th of each month. Email photos and articles to editor Beth Simmons at mineralguild@gmail.com. Exchange with other newsletters is invited, and reprinting of material from this newsletter with proper attribution is encouraged.

2024 DGMG CALENDAR OF EXCITING EVENTS

A persistent page—watch monthly for additions! PUT THIS ON YOUR FRIDGE!!!

DATES we expect to see you!

~~May 4: Field trip to Hartsel, CO, for blue barite. Instructions on p. 4~~

May 5: Spring garden party at **Pete Modreski's**. Driving instructions p. 4.

May 10: Guild meeting at the church

May 11: Trip to Utah with **Bob Pfeifer** for Dugway Geodes—instructions on p. 4

June 22: Field trip to Hartsel, CO, for blue barite. Instructions on p. 4

June 23: Founders picnic at Addenbrooke Park on Garrison Street in Lakewood. First DGMG library book sale.

Thanks to **George Daggett** for cleaning and adding oil to the Panther 14" slab saw and to **Dave Sanchez** for tearing down the Genie and lubricating it and rebuilding it so it is now functioning!

Thank
You

May 2024 Calendar Sponsor: **Bill Jones**, Sidewinder Minerals

Friendly and helpful **Bill Jones** started collecting minerals and fossils while a geology student at Southern Methodist University in Dallas, Texas. He belongs to most of the mineral clubs in the Denver region and came to the Guild through the North JeffCO incorporation.

After 35 years in the oil and gas business, he retired in 2011 to focus on taking his mineral business full time. You can find him at almost every gem and mineral show throughout the midwest and Rocky Mountain West. His 2024 schedule can be found at [Sidewinder Minerals \(rockygems.com\)](http://Sidewinder Minerals (rockygems.com)). We thank him for his continued support of our club and calendar project. And hope he's recovered from his hip replacement surgery!



PRESIDENTIAL MESSAGE

Our May Meeting is a great learning opportunity!

Both new and long-time members should take advantage of this unique opportunity to learn how to identify gems and minerals. Our club vice-president, **Dr. Pete Modreski**, who has a B.A. in chemistry from Rutgers and an M.S. and Ph.D. in geochemistry from Penn State, will be doing a presentation and demonstration with audience participation to follow.

Pete will be talking about the standard mineral identification techniques using observation and tests/techniques with various kinds of instruments or equipment. You will learn about specific gravity, refractive index, thermal conductivity, fluorescence, and various optical properties.

Read all the details, which are included elsewhere in this newsletter, and I look forward to seeing everyone who wants to improve their understanding of identifying gems and minerals at our May meeting.



Joe Walkowich, DGMG 2024 President

Events for May (NOTICE RESCHEDULED BARITE TRIP!)

1) Hartsel Trip— Saturday JUNE 22 9:00 AM: Hartsel barite locality—led by DGMG member **Eric Novack**.

Come out for a wonderful day of digging beautiful blue barite. The \$40 being charged by the owner for the club to access the site will be divided up depending on the number of folks attending. Limited to 20 people. Plan on a three hour trip from Denver to Hartsel to the Bayou Salado trading post in Hartsel.



Don't forget to collect small specimens for the grab bags!

Bring your own digging tools: bucket, shovel, rake, rock hammer, rock chisel, screens, pry bar, brushes, safety glasses, chopsticks, etc. Bring your own personal items: sunglasses, sunhat, long-sleeve light shirt, sunscreen, mask, water, food, canopy tent, chair, toiletries (there is no restroom on site), garbage bag; please clean up your own messes.

There are two main ways to this location: 1) Take HWY 285 South, into the mountains, go all the way to Fairplay, and then HWY 9 South to Hartsel; or 2) Take HWY I-25 South to Colorado Springs, and then HWY 24 into the mountains, to Hartsel.

To ensure your spot, please sign up at: <https://www.signupgenius.com/go/4090D4AA8AF2FA7F58-48719464-hartsel#/>

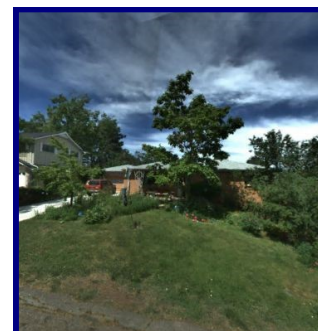
2) Garden party at **Pete Modreski's** house, Sunday May 5th, 1:00.

Dear friends from the Guild,
I am going to host a garden party at my home on Sunday afternoon, May 5, and you are all invited to come. I and my friend, **Bonnie Olson**, from Colorado Springs would be very pleased if you could come; any time after 1 p.m. will be fine. I plan to have hamburgers, hot dogs, salmon, ribs, posole, beer, wine, and soft drinks; if you would like to bring any other favorite dish or items to share, please do. My address is 3555 Miller St., Wheat Ridge. Phone 720-205-2553.

We'll look forward to seeing you, if you can be there!

Pete Modreski & Bonnie Olson

Driving instructions—exit off I-70 onto Kipling South, go to 38th Ave, turn right (west) and go two blocks to Miller, turn south and go up the hill. Pete's house is on the right. Park along the street. OR From the south, come north on Kipling, go to 38th Ave., turn left (west) and go two blocks to Miller, turn south and go up the hill. The house is on the right.



3) Trip to Utah: May 10th-14th **Bob Pfeifer's** email: deerhound101@msn.com

Five-day trip to Utah is being planned for May 10th-14th to collect Dugway geodes and topaz. Trip leader DGMG Member **Bob Pfeifer**.

May 11: Meet in Delta, Utah, at the Maverik gas station at US6&US 50 on the north end of town at 8:30 AM. Will leave at 9:00. Distance from Denver 560 miles. Distance from meeting place to collection site 70 miles about 40 miles paved, 30 miles direct (last 2 miles are rough) 2WD with clearance ok.

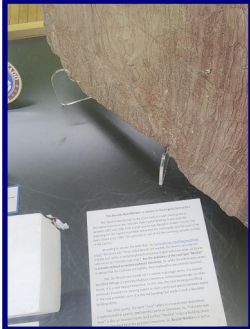
Tools—waist length rock pick, chisels, hammers, shovel, bucket.

Difficulty—EASY to MEDIUM, Elevation 5,500' Terrain Open Range Rocky lava hills (no SHADE). IMPORTANT DETAILS: Collection limit: this is a BLM rockhounding site—with federal limits. Operation Period—Bob will be out there for a night or two.

DRINKING WATER—NONE—bring water and food, primitive camping. Hazards—desert heat, sunburn, NO PHONE SERVICE. Verizon will work if high enough about 27 miles back in some places. Nearest town Delta (also, water, food, lodging, nearest gasoline). Fees None. Collectibles—Geodes and topaz.

CSM Geology Museum Trip, April 20th

About 20 DGMG members ventured forth on the coldest day April can have with snow in the air to take a walk through our own geological treasure chest! Pictures by **Pete Modreski, James Verheyden, Cindy and Gideon Breithaupt, Linda Searcy and Beth Simmons**. We needn't tell you that the photos of the specimens don't come close to recording their beauty! **Bob** has posted the article about the geology of the Clear Creek Cave here: <https://denvergem.org/curated/>. Something more to read!



Above: Did you ever hear of the Beulah Marble? **Cindy Breithaupt** came from the Beulah area and was fascinated by it.

Right: **Pete Modreski**, tour leader, telling about the discovery of the Clear Creek Cave.

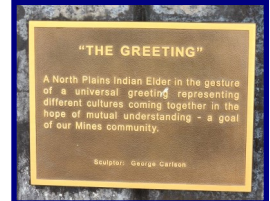
Gideon Breithaupt photo



Below: **Deb Baldwin** tour guide, telling about meteorites and **Fred's** extensive collection of Colorado meteorites which she donated to the museum recently.



Lower left: **James VHeyden** photo
Below: **Gideon Breithaupt** photo
Others: **Pete Modreski** photos



Above: A campus statue
Cindy Breithaupt photos

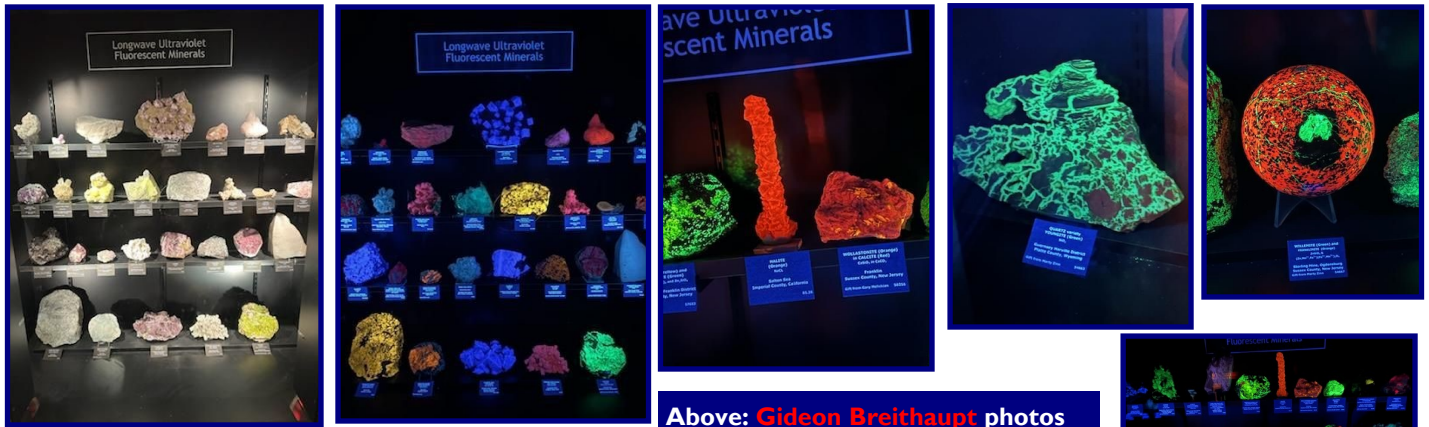
Below: Part of **Fred Olsen's** Colorado meteorite collection

Donated by **Deb Baldwin**
Beth Simmons photo



CSM Geology Museum Trip, con't.

I don't think many folks found the beautiful fluorescent exhibit buried deep in "Blaster's Mine" in the basement of the museum. Many of the artifacts on exhibit around the mine were originally from the "Guild Gold Mine" which our club members created for the AFMS show in 1975. Here are **Gideon Breithaupt's** and **Linda Searcy's** photos of the two-case exhibit.



Above: **Gideon Breithaupt** photos

Plus, **Linda Searcy's** pictures of the Colorado Gemstone case with the Miss Colorado Crown, a big fluorite specimen and our famous state white-capped amazonite and smoky quartz.



In addition to Deb Baldwin's description and seeing Fred's Colorado meteorites, I was particularly interested in finding specimens Marty Zinn, a former DGMG member, had donated. Here are photos of 7 specimens I found.



Amethyst
Unaweep Canyon, CO



Fluorite on Sphalerite
Tennessee



Cerussite
Tsumeb, Namibia



Malachite coating Cuprite
 $Cu_2(OH)_2CO_3$ coating Cu_2O
Emke Mine, Onganja, Namibia
Gift from Martin Zinn 53401

Malachite coating cuprite
Onganja, Namibia

Pyrite "Sun Dollar"



Smithsonite
Kambrie Zambia



Thank you , Marty!

Rhodochrosite stalactite slab
Argentina



Pyrite "Sun Dollar"
With iron from the Aina Shale and sulfur from the Hovine coal, pyrite concretions were formed between layers of the shale during burial with local under great pressure
Gift from Martin Zinn 44551

Earth Day 2024

A History Lesson
in Haibun
by Marj Becker

When Earth Day comes around every year, what do we think about? Do we wonder why we have Earth Day? It seems that before Earth Day was established and on or about June 22, 1969, several things occurred that spurred the establishing of this special day. A river was burning (the Cuyahoga River on Lake Erie); our nation's symbol, the bald eagle, was endangered; an oil rig had dumped oil into the Pacific Ocean near Santa Barbara; whales were being hunted nearly to extinction. We may not remember those times, but they served to trigger the idea of recognizing that our home – our Earth – was in trouble.

Do you know Earth Day?
Where were you the first Earth Day?
Do you help our Earth?

At that time, Gaylord Nelson was Governor of the Great State of Wisconsin. He and the United States Senate decided to organize something called a “teach in” about the many problems putting our world in danger. This teach in was to take place on April 22, 1970. Colleges and universities, as well as local public schools were willing to take part. It is said that almost ten percent of the citizens of the United States participated. That was twenty million people! Someone seemed to care about our earth. And, say so by coming together on that day to talk about the dangers facing our home.

Do you speak your mind?
How do you approach Earth Day?
Earth Day – Can you help?

This grassroots idea took hold over all of the Earth. And, so the very first Earth Day happened. People proclaimed, “We care about our Earth – our home!” The National Oceanic and Atmospheric Administration (NOAA), as well as the U.S. Environmental Protection Agency (EPA) were established because of these issues. Every state has a part of NOAA located in the state. Do you know that our NOAA office for Colorado is in Boulder? So, every year, we have Earth Day. This year, 2024, Earth Day was Monday, April 22. Did you think about our Earth on that day? How often do you give thought to the danger that our home is in? Where are you on the issue of climate change – the “biggie” that we must consider when thinking about the health of our Earth? Our children's legacy.

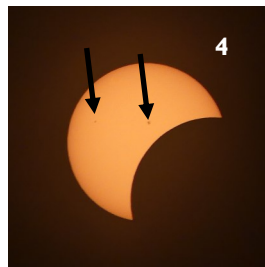
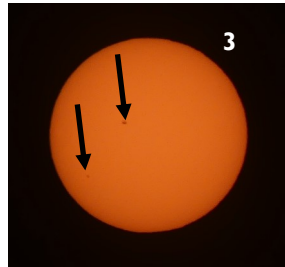
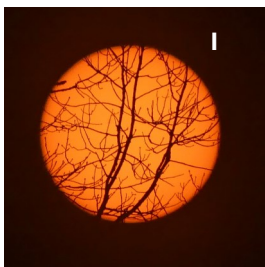
Will your progeny
Have an Earth to live upon?
Where were you, this year?



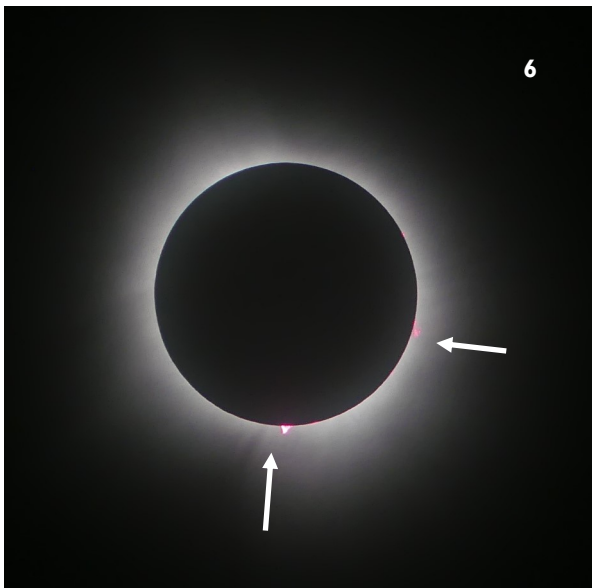
#EarthDay

THE ECLIPSE by **Pete Modreski** DGMG's "Man on the scene in Wapakoneta, OH"

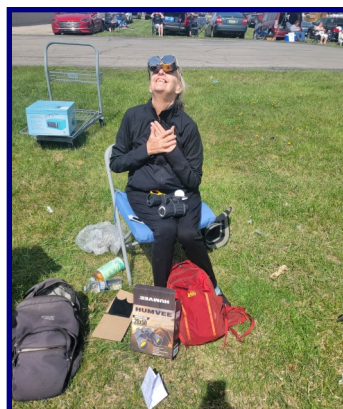
Bonnie Olson (who is now a Guild member) and I watched the April 8 solar eclipse from Wapakoneta, OH, near the center line of the path of totality. Two large sunspots are visible in my photos (3, 4), until that part of the sun was covered by the moon (5). I took the photos with my Panasonic Lumix camera, at 600 mm zoom with a threaded solar filter. At totality I removed the filter and got images showing the corona and several large prominences, especially the ones at 3 and 6 o'clock (6); I was impressed that I could capture all this detail! Also included are several more photos from before and during the eclipse, the first, with tree branches against the sun's disk (1), taken shortly after sunrise at my lake cottage in Michigan; and, showing our (stuffed) furry & feathered friends Javelina and Lottie Loon also watching the eclipse (2), properly through their eclipse glasses. Venus and Jupiter were easily visible in the sky during totality; you can see Venus, below the sun, in the dark sky photo attached (7).



The moon, doing its thing to get attention.



One of the few times when rockhounds are caught looking up!!!!



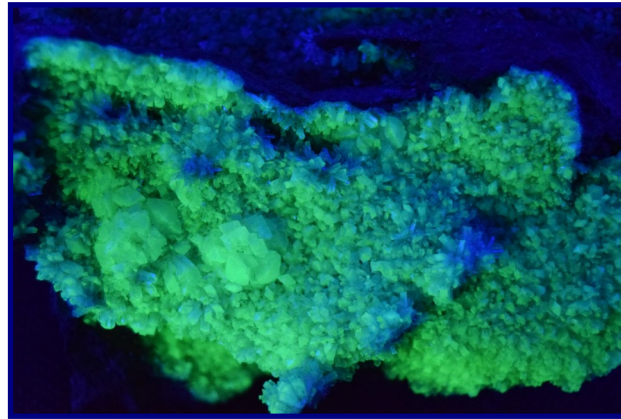
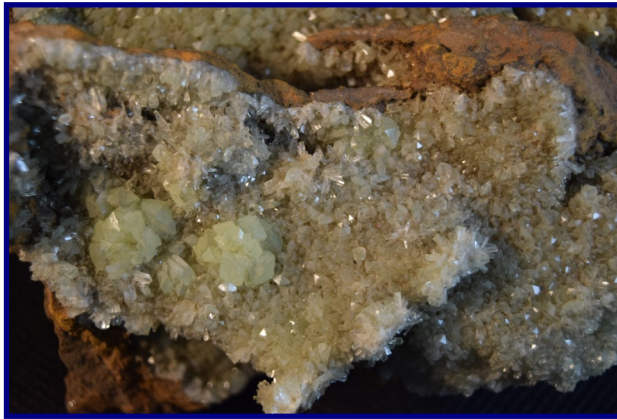
Bob Johnson liquidation

SALES AND JOB!!!

Rock Sale

I am liquidating my collection. 90% of these are from DGMG field trips and most of the rest are from DGMG silent auctions. If you are new to the Guild, drop by and see what you missed for the last 30 years (and buy a couple of rocks at great prices).

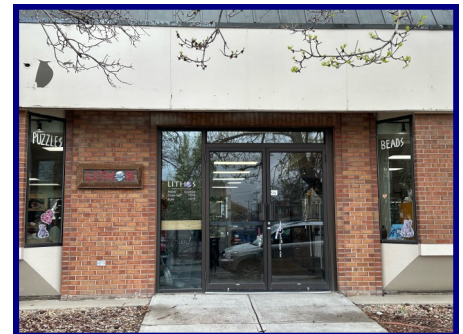
Bob Johnson (720) 282-7994



Job Available! Lithos Mineral Shop

My name is Taylore and I am the manager at **Lithos mineral shop** in Olde Town Arvada. We are looking for new part time employees to start in May.

Hours: 10am-6pm Tues-Sat, 10am-5pm Sun, CLOSED Mon
Work Type: Part Time Retail Associate
Contact: infolitho@gmail.com or 303-495-5521
Address: 5695 Yukon St, Arvada, CO 80002



Chris Van Cleave

Posting a ton of minerals for sale including some cheap auctions on my Ebay store. Keep a look out the next few weeks. I may be taking a break from posting minerals for sale this summer due to some extenuating life circumstances and impending moves. If you're interested in anything, now is the best time to look and reach out as I'm moving things at killer prices and am also taking offers for bulk purchases from fellow dealers/collectors. Thanks everyone!

Facetron Faceting Machine for sale. Located in Denver, Colorado. This machine has a bit of wear but is in otherwise good condition. Could use some cleaning/lubrication on the slide posts and transfer jigs for ease of use. Older style machine with older motor and belt that are still running well. Drip tank has a small crack in bottom from the previous owner that's easily sealed with silicone. Comes with Facetron transfer jig, standard dop set, 45° adapter, 96 & 64 index gears and quill key. I will throw in a few pieces of Brazilian Amethyst rough and can offer some at \$3/gram if needing something to get started with.

LONG LOST DONATION

In 2013 **Bert** and **Case Hanou** donated their collection to Trinidad State Junior College Geology Department.

This note should have been in last month's listings.



What's so Special About the Winchcombe Meteorite?

By **Gary Curtiss**

Beth Simmons forwarded an article about the [Winchcombe Meteorite, a witnessed fall](#) in Winchcombe, Gloucestershire, England on February 28, 2021. The article, published on the Phys.org website, has a catchy title: “**New analysis reveals the brutal history of the Winchcombe meteorite's journey through space.**” About 602 grams of black stony material was recovered including a 535-type specimen now in the British Natural History Museum (photo from Wikipedia). A small fragment weighing 1.7 grams was sold at auction in 2022 by Christies for a whopping \$12,600.00, a relative bargain considering the estimated \$1.16 billion price tag NASA spent to collect 62 grams of similar material from asteroid Benu.



So, what's so special about this one? It is a rare meteorite type, is a witnessed fall, and is almost unavailable to collectors. These factors help make it valuable in the same way as rare paintings by the masters.

There are three main meteorite types: Stony, Irons, and Stony-Irons. About 87% of these are Stony meteorites called Ordinary Chondrites. They are comprised of millimeter sized, flash melted grains of pyroxenes and olivine minerals set in a matrix of similar material.

The Winchcombe meteorite, though, is not so ordinary and instead is a rare type of Stony meteorite known as a Carbonaceous Chondrite. These are fragments of primitive Carbonaceous (C-type) asteroids that have undergone little geological change from their time of formation. These meteorites look like charcoal briquettes and contain carbon, oxide minerals, high temperature silicates, sulfide minerals, water, serpentine, and chemically altered minerals similar to terrestrial clays. Organic molecules, including amino acids, have been identified in Winchcombe and other Carbonaceous Chondrites. Compared to other meteorites, the composition of Carbonaceous Chondrites is closest to that of the sun. The rapid retrieval and curation of the Winchcombe meteorite makes it one of the most pristine meteorites available for analysis, offering scientists a tantalizing glimpse back through time to the original composition of the solar system about 4.6-billion-years-ago.

The Winchcombe Carbonaceous Chondrite contains extra-terrestrial water similar to that on the Earth, thus, some researchers believe that most of our terrestrial water was brought by Carbonaceous Chondrite meteorites

The Winchcombe meteorite contains the oldest and most primitive matter formed in the solar system. Silicon carbide particles in the meteorite have been age dated at 7 billion years old, about 2.5 billion years older than the 4.54-billion-year age of the solar system. Refractory inclusions called 'calcium aluminum inclusions' contain pre-solar grains and nano diamonds created in super nova explosions in older generation stars. Winchcombe is a brecciated meteorite containing eight distinct types of Carbonaceous material, suggesting that the Winchcombe asteroid had a turbulent history of repeated impacts and fragmentation by other asteroids.

Although Winchcombe is special, there are more affordable Carbonaceous Chondrites for sale from established meteorite dealers. In my opinion, one of the best and most reliable is located here in our own back yard: Mile High Meteorites operated by Matt Morgan. <https://mhmeteorites.com/>

What can be more special than holding some of the most primitive material formed in the early solar system?

More information: Luke Daly et al, Brecciation at the grain scale within the lithologies of the Winchcombe Mighei-like carbonaceous chondrite, *Meteoritics & Planetary Science* (2024).

The NASA website: nasa.gov for more about this topic.

There are many good meteorite books available. Three of the best are:

Rocks From Space by O. Richard Norton, Second Edition, Mountain Press Publishing Company, 1998.

Field Guide to Meteors and Meteorites by Norton, O. Richard and Chitwood, Lawrence A, Springer Publishing, 2008.

The Cambridge Encyclopedia of Meteorites by O. Richard Norton, Cambridge University Press, 2002.

Pete's Pegmatite and Petrified Wood Experience by "Pegmatite" Pete Modreski

Guild friends,

I'll admit, it's a bit of a stretch to make a connection between these two things, but let me tell you the story!

Last month (April), I was on my way back to Colorado with my friend **Bonnie Olson**, after visiting my Michigan lake cottage for a week, including to experience the total eclipse 190 miles to the south in Wapakoneta, Ohio. We were in Ogallala, Nebraska, just parking in front of the town's Petrified Wood Gallery and Museum, when my cell phone rang. I was surprised that it was a call from the Tucson Gem & Mineral Society & show office.

Going back to the Petrified Wood Gallery, it is a really worthwhile place to visit, if you're travelling across Nebraska on I-80. Most of its displays represent the collections and lapidary work of two twin brothers, Howard and Harvey Kenfield, born in 1928 and both of whom just passed away last year. Their particular "rock art" work was to construct miniature houses and buildings depicting western town and ranch life, all made of carefully selected chips of petrified wood. As well, the museum includes displays of agate and other rocks and minerals, polished spheres and bowls, arrowheads, sculptures, and more. The modern building that houses it, and the exhibits, are well designed, brightly lit, and well cared for by the foundation that maintains the museum. It includes a sales gallery with rock and mineral specimens as well as the work of local artisans. The gallery is open 9 a.m. to 4 p.m., Monday to Friday; there's no admission charge (there is a box for donations). We enjoyed our visit; I often try to make a stop there (clean, modern rest rooms!) on my travels between Denver and Michigan.

Now, back to the phone call. The call was from Rose and Pat, at the TGMS club & show office. Some of you who go to the Tucson Show may know that in each of the past several years, "for fun", the club hands out a quiz sheet, with some 20 or so questions, often a bit tricky or deviously phrased, relating to the year's show theme. They prepare a display case too, about the show theme and perhaps giving clues about some (but probably not all) of the questions on the quiz. This year's show theme was "Pegmatites, Crystals Big and Beautiful", so the quiz was about pegmatites. Show-goers are invited to fill out and turn in the sheet, with the winner with the most correct answers to receive a prize.

So that's what the call had been about! I had turned in a copy of the quiz sheet, and it had taken that long to score the answer sheets and get in touch with me, but I had been judged the winner of the quiz. What a surprise! They told me that a package with an assortment of gifts would be on its way to me. And, a few days after returning home from our trip, I did indeed receive it; a TGMS show T-shirt, cap, poster, and even a check from TGMS; which has by now been cashed, and used to purchase a mineral specimen (as a birthday present, for **Bonnie**). Here is a picture of us, with the gifts.

And a postscript to this. On a follow-up call to the show office folks, thanking them for what they'd sent, I said how I'd like it if they could send me a copy of all the correct answers for the quiz, so I could see how well I'd done and what things I might not have known, or guessed wrong on. My extra surprise—they said, whatever my answers had been, they were the right ones, because I had gotten 100% correct on the sheet I turned in. I could never have imagined that, as some of the questions took a fair amount of guessing! Such as, for example—"True or False, February 12 is International Pegmatite Day". [There's no such thing.]

A last postscript to this too. **Bonnie** had also turned in a copy of the quiz, and we have to admit, we conferred a bit about the possible answers, and the sheet she turned in had a few questions answered differently than mine did. Evidently, I chose all the correct answers! All the show folks could tell me was, her quiz did not come in as second place, so she presumably had at least two questions wrong.

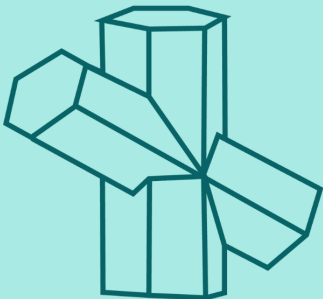
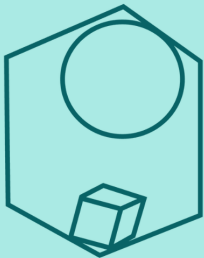
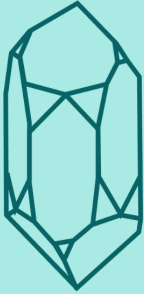
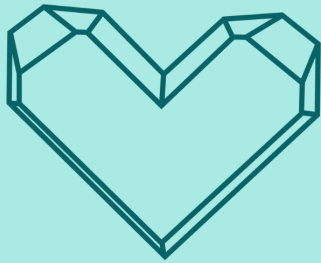
So next year, those of you who may be at the Tucson Show—be sure to try their quiz! Next year's (February 13-16) show theme: "Shades of Green—Experience the Magic!"

A final comment; the first year I attended the Tucson Show was 1974, and I believe, as well as I can recall, I don't think I've ever missed attending a show since, so this makes 50 or 51 consecutive years of Tucson Shows. (There was no official TGMS show in 2021 due to COVID, but a few dealers were still set up there that year, not at the Convention

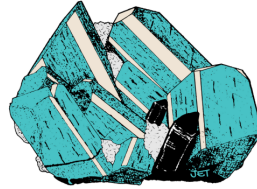
Center but at the Mineral City show, and I was there, too—as much to go hiking and enjoy the Mexican food, as to look for mineral dealers!)

---**Pete Modreski**, DGMG vice-president and member since 1996 (now assigned new name "**Pegmatite Pete**")



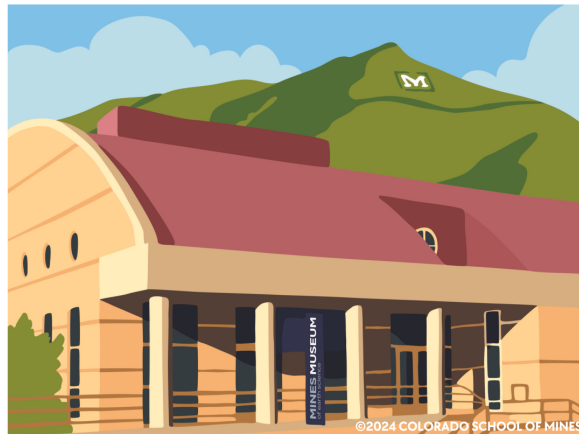


FRIENDS OF MINERALOGY COLORADO CHAPTER 2024 SYMPOSIUM



MINERAL ODDITIES

Twining, Pseudomorphs,
Inclusions, and more!



June 13th - 16th, 2024, at the Mines Museum
of Earth Science at Colorado School of Mines
in Golden, Colorado

Scan me for more
information and to sign
up for the mailing list!



friendsofmineralogycolorado.org/symposium

Denver Gem and Mineral Guild April 12, 2024 by Joe Walkowich Secretary Heidi Utt was on the road

Board Meeting Agenda

Call to order at 6:15 pm: **Board Meeting.**

No Quorum and No Votes taken.

We discussed the possible theme of Amazonite and Aquamarine for the 2025 show. The board members present agreed that it would be a good idea. Joe W. suggested including wording such as "we will also accept displays that don't adhere to the theme". It was generally agreed that we have two best specimen awards for the themed minerals, one for lapidary and one for natural. We could have one or two dedicated cases that contained the various submissions for judging. It was determined we would need three knowledgeable judges and Pete M. volunteered to recruit these judges. This needs to be voted on at the May Board Meeting.

There was a discussion regarding the book sale at the picnic at Addenbrooke Park, June 23. We have about 100 books. We will not auction off books written by our members. **Members only** silent auction at the two club picnics. Unsold books will go to the October silent auction. Sandra L. pointed out that we will need several volunteers to collect the money at these events. Joe W. volunteered to be a cashier at the June picnic.

Adjourn 6:50 pm

General Meeting Call to order at 7:15 pm, adjourn 8:45 pm

Approval of Secretary's Minutes from March. Beth S. motioned for approval, Fred B. seconded, passed with no objections.

Approval of Treasurer's Report. Joe W. motioned for approval, Sandra. seconded, passed with no objections.

Several new members and visitors attending their first meeting introduced themselves and were welcomed.

It was stated that a supplement for our May Tips & Chips will be dedicated to Guild authors and to please let Beth S. know of your books and articles!

Input was requested on what type of programs members would like to see at our meetings, and for members to please volunteer to talk about their club related areas of interest and expertise.

We requested volunteers to lead our summer Digging Field Trips. If you know of a suitable location that you can lead a trip to please let us know.

Joe W. reminded everyone that this is their club and it is run entirely by club members. We need folks to help with audio/visual set up at our meetings. We will be needing members to help with setting up and running our annual silent auction in October. Members should also start thinking about joining our board'

The list of upcoming Events was read.

There were no Chair Reports.

A presentation on "Crystal Peak, one of Colorado's most famous collecting spots" was given by DGMG member Mark Jacobson. It was well received.

Adjourn 8 :45 pm

Custom-made name tags will be sold at the meeting for \$1.00!!! Please have one made so we can learn who's who!!!!



Make sure to get your 60th anniversary DGMG t-shirt!
\$15.00!

And your 60th year anniversary pin \$5.00!

Available at the meeting



WEIRD ROCK FORMATIONS—Arches

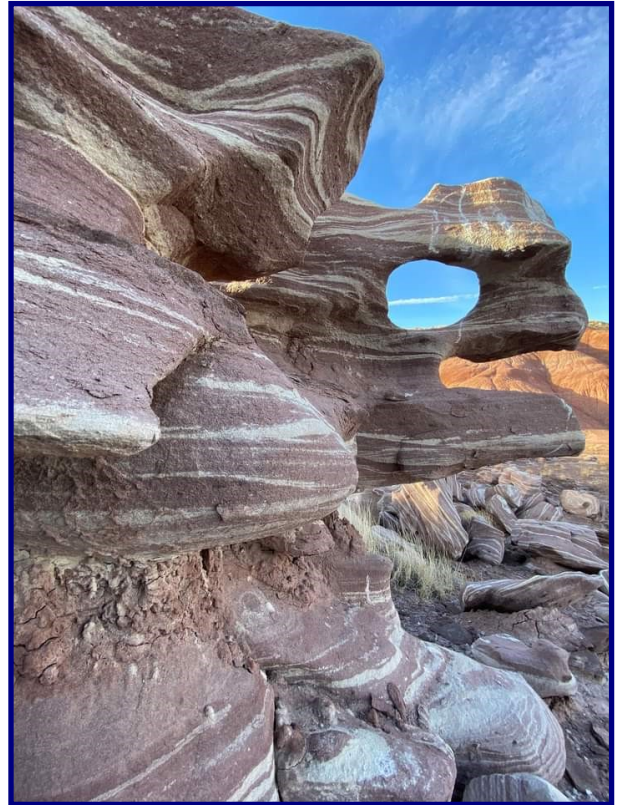
(photos from Facebook)



Above: Metate Arch, Grand Staircase-Escalante NP, UT

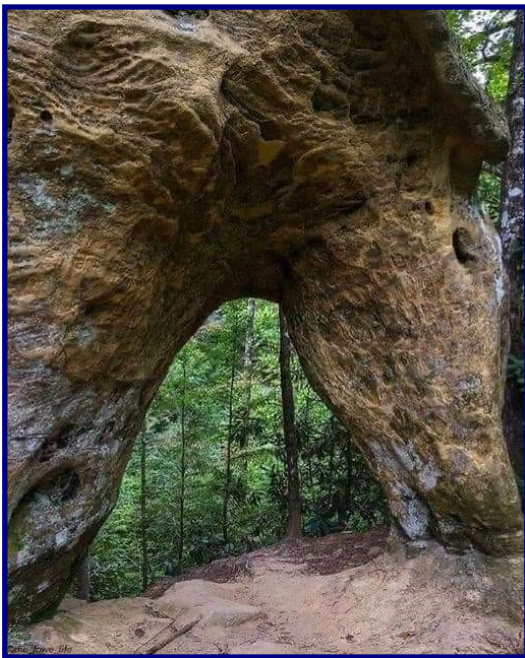


Above: Peek-A-Boo Slot Canyon, Escalante NP, UT



Above right: Dragon Head arch Vermillion Cliffs, UT

Below Left:: De-Na-Zin Wilderness, Bisti Badlands, NM & Right: "The Throne," Bisti Badlands, NM

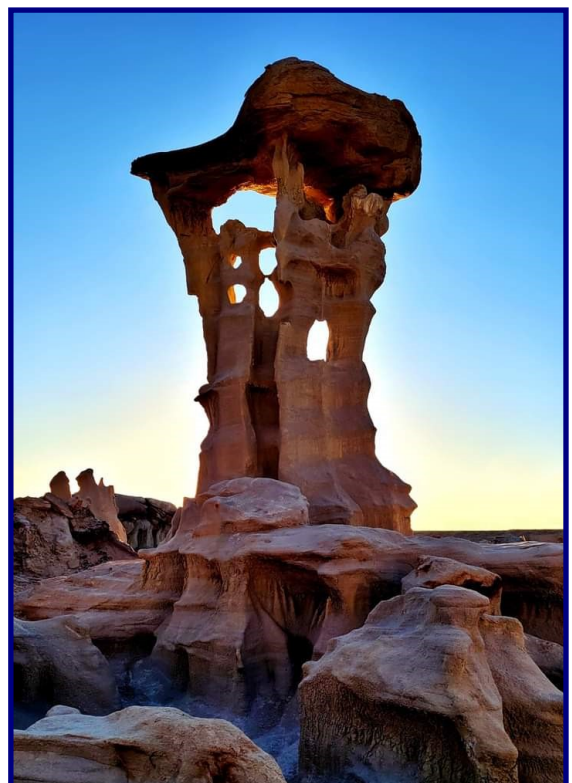


Left: I couldn't resist this one!

Horsehead Arch
GUESS WHICH STATE!!!

Answer, p. 13

Below:
Not an arch but a unique duck on a duck shape!



The Original Denver Gem and Mineral Show

May 2024 Update

The 2024 Denver Gem & Mineral Show (DGMS) in conjunction with the Hardrock Summit will be held at a new location this year—at the Westin Westminster Hotel from September 12-15, 2024. The address for the hotel is 10600 Westminster Blvd, Westminster, CO 80020.

The DGMS will have a separate area at the hotel that includes dealers, fluorescent room, special exhibits, education displays, gold panning, and grab bags. The theme of the 2024 DGMS is **Mineral Oddities**. Hours for the Show are Thursday through Saturday 10:00am to 6:00 pm and Sunday 10:00am to 3:00pm. Admission and parking for Hardrock Summit and DGMS will be **FREE**.

Volunteers Needed

The DGMS is put on by the area Denver gem, mineral, and fossil clubs. Your participation as a volunteer is the life blood of a successful show and we need many volunteers. Volunteer duties can include Display Case Set-up and Tear Down on Wednesday 10am-4pm and Monday 3pm-7pm, Grab Bags and Pins sales, Club Tables, and Fluorescent Room. More information will be coming out for signup of volunteers. Additional information on volunteer sign-up will occur in the coming months.

Request for Club Members Display Exhibits and Competitive Exhibit Options

Another outlet for your support for the DGMS would be to enter an exhibit in the show for the enjoyment of our visitors. For over 50 years, these displays have set us apart as unique from the rest of the area shows. We encourage exhibits that feature the show theme of "Mineral Oddities", but any display is appreciated like fossils, mining history, collections, and educational/hobby topics. Exhibited material need NOT be self-collected. Contact Larry Havens at lwrnchavens@comcast.net or 303-757-6577 if you are interested in putting together a display case in the DGMS. Setup for the display cases will be Wednesday, September 11th and tear down will be Sunday, September 15 after the show closes.

In addition, we are offering the following competitive exhibit options with awards:

Both Adult and Junior (ages 6 through 14) Prospector Competitions - The collecting period for eligible personally-collected specimens is September 18, 2023 to August 26, 2024.

The Species Competition – Entries are mineral specimens (one per category) in the following categories: thumbnail, toenail, miniature, cabinet, oversize cabinet, field collected, and best of Colorado. You may enter one, some, or all the categories.

The Best Fossil Personally Collected in the Field Competition – Up to three specimens can be entered. The collecting period for eligible personally-collected specimens is September 18, 2023 to August 26, 2024.

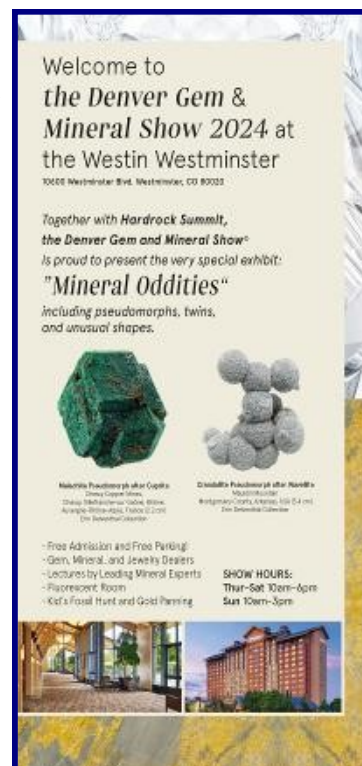
Club Prospector Trophy – We are bringing this club competition back this year. Any member club is eligible to enter up to three specimens collected after September 30, 2021 until August 19, 2024 on club-sponsored field trips. Specimens collected from fee sites will be allowed.

Richard M. Pearl Trophy –We are bringing this award back as well this year. It is awarded to the exhibitor of the best crystallized mineral specimen entered in this competition. Entries may be any crystallized mineral, thumbnail or larger, from any locality; the exhibitor must own the specimen. Quality, on a worldwide basis, will be the only criterion by which each mineral specimen will be judged. The exhibitor will be limited to three entries for this trophy in a given year. A specimen is eligible to win this trophy only once.

For full information and entry forms contact Larry Havens at lwrnchavens@comcast.net or 303-757-6577. Deadline for the competitive entries is August 26, 2024. We will provide display cases and liners (if requested).

If you have any questions, please contact Amber Brenzikofer, 2024 DGMS Chairperson, at amberbrenzikofer@gmail.com or 720-480-5234.

Thanks and let's have a successful show this year in our new location!





Colorado Mineral Society's Silent and Verbal Auction Saturday May 4, 2024

*Minerals, fossils, faceted stones, lapidary materials, books,
jewelry, and fluorescent minerals*

- Verbal auction at 1:30pm of museum quality specimens donated by supporters
- One auction table reserved for only children to bid on
- Special fluorescent minerals room
- Free parking and easy handicap access
- Limited refreshments so, if needed, bring your own lunch
- Cash, Check, and Credit Card will all be accepted at the auction

LOCATION:

**Wheat Ridge United Methodist Church,
7530 W. 38th Ave, Wheat Ridge CO.**

Directions: from Wadsworth head east on 38th to first street (Vance St).
Turn right onto Vance St; parking is behind the building or on Vance St.

Time:

11:00am to 4:30pm

Checkout will begin at 3:00pm

****A special invitation is extended to non-CMS members to participate as sellers and buyers****

Sellers Setup:

Starts at 10:00am (must go through check in desk, so arrive early)

Note for sellers: APPROVED BID SLIPS MUST BE FILLED OUT PRIOR TO ARRIVING AT THE AUCTION!

Limit of sales to three flats of materials. Sellers can get copies of bidding slips on our club website:

http://www.coloradomineralsociety.org/Silent_Auction_Bid_Slip.pdf

Contact Leslie Osgood, for a bidder number and/or seller letter, preferably by email at jandlosgood@gmail.com or at 303-986-4488 (leave a message and she will call you back)

General questions about the auction should be directed to Lesley Sebol by email at: lesleysebol@gmail.com

www.coloradomineralsociety.org

